

What is claimed is:

1. An eccentric transmission having an imbalance compensation element (10a – 10e) and having an eccentric element (12a – 12e) for converting a revolving rotary motion of an armature shaft (14a – 14e) into an oscillating rotary motion of a drive shaft (16a – 16e) in order to drive an insert tool (40a – 40e) of a hand-held power tool (18a – 18e) to oscillate, wherein the imbalance compensation element (10a – 10e) is integral to another functional unit (12a – 12d, 14e).
2. The eccentric transmission as recited in claim 1, wherein the additional functional unit is the eccentric element (12a – 12d).
3. The eccentric transmission as recited in one of the preceding claims, wherein the imbalance compensation element (10a, 10d, 10e) includes a recess.
4. The eccentric transmission as recited in one of the preceding claims, wherein the imbalance compensation element (10b, 10c) is composed of an outer casing (22b, 22c) of the eccentric element (12b, 12c).
5. The eccentric transmission as recited in claim 4, wherein an axis (20c) of the outer casing (22c) is tilted in relation to at least one axis (24c, 26c) of the eccentric element (12c).
6. The eccentric transmission as recited in one of the preceding claims, wherein the eccentric element (12a – 12e) is provided to be press-fitted onto the armature shaft (14a – 14e).
7. The eccentric transmission as recited in one of the preceding claims, wherein the imbalance compensation element (10d) has a cross section that changes in the axial direction.

8. The eccentric transmission as recited in one of the preceding claims, wherein the imbalance compensation element (10d) has it leased two axially offset regions (28d, 30d), each with a different imbalance.

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9. The eccentric transmission as recited in claim 1, wherein the additional functional unit is the armature shaft (14e).

10. The eccentric transmission as recited in claim 9,  
10 wherein the imbalance compensation element (10e) includes a recess in the armature shaft (14e).

11. The eccentric transmission as recited in claim 10,  
15 wherein the imbalance compensation element (10e) includes a lateral flattened region of the armature shaft (14e).

12. A hand-held power tool equipped with an eccentric transmission as recited in one of the preceding claims.